	Application No.	Applicant(s)	
Notice of Allowability			
	10/602,982 Examiner	NAUSE ET AL. Art Unit	· · · · ·
	Eugene Lee	2815	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not include junication will be mailed in due c	d ourse. ȚHIS
1. This communication is responsive to <u>2/6/06</u> .			
2. X The allowed claim(s) is/are <u>1-10,12-15 and 17-19</u> .	•		
3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the delow. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application cuments have been received	on No ed in this national stage applicati	
I. A SUBSTITUTE OATH OR DECLARATION must be submi			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Revie Amendment / Comment on 84(c)) should be written on	or in the Office action of . the drawings in the front (not the	back) of
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT.	sit of BIOLOGICAL MAT	ERIAL must be submitted. N	ote the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PTC	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), ./Mail Date	•
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		s Amendment/Comment	
I. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	s Statement of Reasons for Allov	wance
of Biological Material	9.	EUGENE LEE	
		PRIMARY EXAMINE	

DETAILED ACTION

Allowable Subject Matter

1. Claims 1 thru 10, 12 thru 15, and 17 thru 19 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least a high electron mobility transistor (HEMT) comprising: a channel layer being composed of a II-VI compound semiconductor zinc oxide (ZnO); and a gate insulating layer composed of at least one of a Group-III nitride compound semiconductor and a magnesium zinc oxide oxide (MgZnO) quantum well structure.

Regarding claims 17 thru 19, the references of record, either singularly or in combination, do not teach or suggest at least a method comprising the steps of: defining a channel layer composed of a II-VI compound semiconductor zinc oxide (ZnO); forming a gate insulating layer composed of at least one of a Group-III nitride compound semiconductor and a magnesium zinc oxide (MgZnO) quantum well structure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 571-272-1733. The examiner can normally be reached on M-F 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eugene Lee

April 12, 2006

EUGENE LEE PRIMARY EXAMINER 1/2



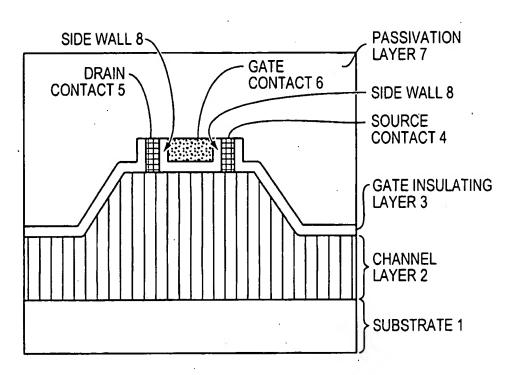


FIG. 1

01/12/06